



Australian Government

FWPSIL3002 Plant trees mechanically

Release: 1

FWPSIL3002 Plant trees mechanically

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to select suitable tree stock, prepare the planting site and plant trees mechanically.

The unit applies to individuals who are involved in planting trees mechanically as part of forestry operations.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Silviculture (SIL)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for mechanical planting operations	1.1 Determine job requirements from work order or instruction, and where required seek clarification from appropriate personnel 1.2 Confirm safety and environmental requirements, including use of personal protective equipment, for the task according to workplace procedures 1.3 Identify, assess and take actions to mitigate risks and hazards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	associated with mechanical tree planting operations 1.4 Identify emergency and evacuation procedures to follow in the event of an incident or accident 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Select tools, equipment, machines and materials for mechanical tree planting, and check for serviceability according to workplace procedures 1.7 Obtain, visually assess and prepare planting stock according to work order
2. Assess planting site and stock	2.1 Assess and prepare planting site according to work order 2.2 Select quantity of tree stock to plant according to production target and stock quality 2.3 Select work methods and patterns to suit tree type, plant site and type of equipment 2.4 Identify and resolve issues associated with the site, equipment, tree stock, hazards or safety according to workplace procedures
3. Plant forest trees	3.1 Conduct pre-operational checks of planting machine and report faults if identified 3.2 Use planting machine to plant tree stock according to production target, manufacturer instructions and workplace procedures 3.3 Identify and dispose of unsuitable tree stock according to environmental protection practices 3.4 Maintain and store planting machine, tools, equipment and remaining tree stock according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
-------	-------------

Skill	Description
Reading	Extract information from industry guides and standard references on mechanical tree planting procedures
Writing	Complete basic records of tree planting activities
Oral communication	- Ask open and closed questions and use active listening techniques to clarify contents of work orders - Provide oral reports on tree planting activities
Numeracy	Complete routine calculations involving number and spacing of tree plantings

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSIL3002 Plant trees mechanically	FWPFGM2204 Plant trees mechanically	Updated Application Statement Reworded Elements and Performance Criteria Updated Foundation Skills and Assessment Conditions	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPSIL3002 Plant trees mechanically

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has selected suitable tree stock, prepared the planting site and planted trees mechanically in one sample plot of an area to be reforested.

In undertaking this activity, the individual has:

- evaluated the planting site, determined the species and quantity of trees to be planted and selected the appropriate work method taking into account site characteristics, machine type and tree stock
- complied with environmental and safety standards, including use of personal protective equipment (PPE)
- safely set up and operated a planting machine to plant forest trees taking into account production target, machine capacity, manufacturer instructions and workplace procedures
- followed environmental protection practices in disposing of unsuitable tree stock
- maintained and stored planting machine and remaining tree stock
- identified and resolved one problem associated with mechanically planting tree stock selected from:
 - mechanical equipment fault or malfunction
 - environmental hazard
 - safety hazard
 - site characteristic
 - unsuitable planting stock
 - pest or disease.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- typical hazards present in mechanised forest tree planting situations:

- slope
- water
- rock
- undergrowth
- slash
- depressions and holes
- falling or fallen branches
- equipment hazards
- fuel
- manual handling
- typical tree stock defects and visual characteristics:
 - pests
 - diseases
 - nutritional deficiencies
- factors to consider for planting trees, and how these affect quality and characteristics of grown trees:
 - planting depth
 - spacing and row positioning of seedlings
 - root placement
- purpose, features, operation and maintenance of tree planting machines
- workplace procedures specific to planting trees mechanically:
 - workplace health and safety, with particular emphasis on equipment lock-out, risk control and use of PPE
 - communication reporting lines
- environmental protection practices for forest settings:
 - cleaning plant, tools and equipment
 - disposing of and recycling waste
 - returning the environment to its original or near to original condition on completion of activity
- safe manual handling techniques for operating in forest settings, specifically those for:
 - shifting
 - lifting
 - carrying tree stock.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest or wood products work environment or an environment that accurately represents workplace conditions

- resources, equipment and materials:
 - tree stock for planting
 - planting machine, tools, equipment and materials used in mechanical tree planting
 - PPE suitable for mechanical tree planting
- specifications:
 - work order or instruction with specific instructions for types and quantities of trees to be planted
 - workplace health, safety and environmental policies and procedures applicable to mechanical tree planting
 - workplace procedures for mechanical tree planting.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>